

In the Claims

The following is a marked up version of the claims. Amend the following claims by adding the language that is underlined ("____") and by deleting the language that has a strikethrough ("—").

1-45 (CANCELED)

46. (CURRENTLY AMENDED) A process for the preparation of urethane resins comprising the steps of

providing a compound(a) having a hydrolyzable group selected from the group consisting of alkoxy and acetoxy groups directly bonded to 1 to 10 silicon atoms and having an organic group(I) selected from the group consisting of primary amino, secondary amino and acryloyl groups;

providing a compound(b) being capable of reacting with said organic group(I) of compound (a) to form a compound (b) having a secondary amino selected from: acrylate, acryloxsilane, monomaleimide, and maleic anhydride;

~~(1) reacting a compound(a) having a hydrolyzable group selected from the group consisting of alkoxy and acetoxy groups directly bonded to 1 to 10 silicon atoms and having an organic group(I) selected from the group consisting of primary amino, secondary amino and acryloyl groups, with a compound(b) being capable of reacting with said organic group(I) to form a secondary amino compound selected from: acrylate, acryloxsilane, monomaleimide, and maleic anhydride, in order to produce a product(A) having said hydrolyzable group directly bonded to 1 to 10 silicon atoms and having less than two secondary amino groups in one molecule;~~

providing a polyisocyanate compound (compound(d));

providing a compound selected from the group consisting of: a polyol compound (compound(c)), a polythiol compound (compound(c-1)), and a compound (product(C)) having a number average molecular weight of 100-25000 and having at least 0.2 terminal secondary amino groups in one molecule, wherein said product(C) is obtained by reacting a compound(e) having an organic group(II) having a number average molecular weight of 100-25000 selected from the group consisting of amino and acryloyl groups, with a compound(f) being capable of reacting with said organic group(II) to form a secondary amine compound;

(2) reacting a the polyisocyanate compound (compound(d)), with a the compound selected from the group consisting of: a polyol compound (compound(c)), a polythiol compound (compound(c-1)), and a compound (product(C)) ~~having a number average molecular weight of 100-25000 and having at least 0.2 terminal secondary amino groups in one molecule~~, in order to produce a (thio)urethane pre-polymer (product(B)) having a terminal isocyanate group in an amount of 4 % or less by weight of said product(B), ~~wherein said product(C) is obtained by reacting a compound(e) having an organic group(H) having a number average molecular weight of 100-25000 selected from the group consisting of amino and acryloyl groups, with a compound(f) being capable of reacting with said organic group(H) to form a secondary amine compound~~; and

(3) reacting said product(A) with said product(B) in the proportions of at least 0.5 equivalent of said product(A) per free isocyanate group of said product(B) to produce a urethane resin.

47. (CANCELED)

48. (CURRENTLY AMENDED) The process for the preparation of urethane resins according to claim 46, wherein said compound(a) is a compound(a-2), ~~said compound(b) is selected from the group consisting of a compound(i), compound(l) and compound(m)~~, wherein said compound(a-2) has at least two primary or secondary amino groups or has at least one primary amino group and secondary amino group as said organic group(I), ~~wherein said compound(i) is selected from the group consisting of an α, β-unsaturated carbonyl compound and α, β-unsaturated nitrile compound, wherein said compound(l) has less than two isocyanate groups and is obtained by reacting a compound(j) having at least two isocyanate groups with a compound(k) having one to two active hydrogens being reactive with an isocyanate group, and wherein, said compound(m) is a monoisocyanate compound.~~

49-62. (CANCELED)

63. (PREVIOUSLY ADDED) A process for the preparation of urethane resins according to claim 46, wherein said compound (a) includes N- β (aminoethyl) γ -aminopropylmethyldimethoxysilane, said compound (b) includes 2-ethylhexyl acrylate, said compound (c) includes polyether polyol, and said compound (d) includes 4,4'-diphenylmethanediisocynate.